

# METHODS FOR OPTIMIZING MEMORY RESOURCES DURING INITIALIZATION ROUTINES OF A COMPUTER SYSTEM

## ABSTRACT OF THE DISCLOSURE

5           Methods for optimizing of memory resources during an initialization routine of a  
computer system which prepares the computer system for loading of an operating system is  
disclosed. One exemplary method includes receiving a request from a system BIOS to locate  
an amount of conventional memory where the amount of conventional memory  
accommodates at least a decompressed version of data located in an option ROM BIOS.  
10       Then the amount of conventional memory requested by the system BIOS is determined. If  
the amount of conventional memory requested by the system BIOS is not available, the  
method continues and system BIOS data located within the conventional memory is read  
where the system BIOS data occupies at least the amount of conventional memory requested  
by the system BIOS. After the system BIOS data is read, the system BIOS data is written  
15       from the conventional memory to an extended memory, and the system BIOS data located in  
the conventional memory that has been written into the extended memory is deleted.